

Standard parameters used in the soil module.

climate	arid	semi-arid	dry Mediterranean	typical Mediterranean	mesic Mediterranean	range in sensitivity analysis
soil texture (1)	sandy loam	loam	clayey loam	clay	clay	
moisture retention (2)						
θ_S (v/v)	0.35	0.4	0.45	0.5	0.55	[0.3, 0.7]
θ_R (v/v)	0.015	0.03	0.04	0.04	0.05	[0.01, 0.1]
α	62	59	84	108	78	[20, 1600]
β	1.38	1.27	1.26	1.25	1.22	[1.1, 1.8]
depth A4 layer (cm) (3)	1	5	10	15	10	[1, 15]
infiltration rate (4)						
I_{dry} (%)	92	93	94	100	99	[70, 100]
ΔI	-36	-29	-20	-1	-9	-[0, 40]
hydraulic conductivity						
K_A (%)	30	50	60	70	60	[30, 100]
permeability P (%) (4)	100	100	100	100	70	[50, 100]
evaporation rate						
E_O	$3.0 \cdot T$	$3.0 \cdot T$	$3.0 \cdot T$	$3.0 \cdot T$	$3.0 \cdot T$	$[1.5, 4] \cdot T$
E_{A1}	3.0	3.0	2.5	2.5	2.0	[1.5, 4]
surface heterogeneity H (%)	90	50	20	10	10	[0, 100]

T : daily temperature (°C)

- (1) Sara Pariente, pers. comm.
- (2) van-Genuchten parameters derived from water content measurements at similar sites (Sara Pariente, pers. comm.)
- (3) H. Lavee, pers. comm.
- (4) derived from runoff measurements at the field sites (H. Lavee, unpublished results, 2004)